

Amendments to the Claims

Please amend claims 18, 21, 23, 50, and 51, and cancel claims 1-17, 20, 24-49, 53-54, and 57-85, as indicated below.

The following listing of the claims replaces all previous listings.

Claims 1-17. Cancelled.

18. (currently amended) A substantially pure nucleic acid comprising a sequence encoding a polypeptide, wherein said polypeptide comprises a polypeptide substantially identical to a polypeptide encoded by a nucleic acid sequence selected from the group consisting of:

~~TRAAM (SEQ ID NOS: 1, 3 and 17); TPR/UBP3 (SEQ ID NO: 7); UBP3 (SEQ ID NO: 7); BRAP-2/H⁺-ATPase (SEQ ID NO: 8); KOO8-1 (SEQ ID NO: 9); the MAIAP (SEQ ID NO: 11); Gene AS (SEQ ID NO: 16); BR-1 (SEQ ID NO: 14); and BR-2 (SEQ ID NO: 15).~~

19. (original) The nucleic acid of claim 18, wherein said nucleic acid comprises a nucleotide sequence set forth in claim 18.

20. (cancelled)

21. (currently amended) The nucleic acid of claim 18 or 20, wherein said nucleic acid is DNA or RNA.

22. (original) A vector comprising the nucleic acid of claim 18.

23. (currently amended) A An isolated cell comprising the nucleic acid of claim 18.

Claims 24-49. Cancelled

50. (currently amended) A vaccine for inducing anti-MAIAP antibody in a subject treatment of a tumor or prophylaxis against developing a tumor, comprising a substantially pure nucleic acid encoding a tumor antigen or a fragment thereof, wherein said fragment comprises at least 10 amino acids, wherein said tumor antigen is encoded by a the MAIAP nucleic acid SEQ ID NO: 11 selected from the group consisting of: TRAAM; TPR/UBP3; UBP3; BRAP-2/H⁺-ATPase; H⁺-ATPase; KOO8-1; MAIAP; Gene AS; BR-1; BR-2; KIAA0603; TPR; NOR-90; and BRAP-2.

51. (currently amended) The method vaccine of claim 50, wherein said nucleic acid is within a cell, wherein said nucleic acid is expressed in said cell.

52. (original) The vaccine of claim 50, wherein said nucleic acid is within a vector.

Claims 53 ~ 54. Cancelled.

55. (original) A substantially pure MAIAP nucleic acid, wherein said nucleic acid encodes the MAIAP polypeptide set forth in SEQ ID NO: 12.

56. (original) The MAIAP nucleic acid of claim 55, wherein said nucleic acid comprises the nucleotide sequence set forth in SEQ ID NO: 11.

Claims 57-85. Cancelled.